

# ABSTRACT

A system and method for efficiently charging and discharging a capacitive load from a single voltage source. The system includes a first switch for selectively connecting the voltage source to the load and a second switch for selectively providing a short across the load as may be common in the art. A particularly novel aspect of the invention resides in the provision of plural capacitive elements and a switching mechanism for selectively connecting each of the capacitive elements to the load whereby the load is gradually charged or discharged. In the illustrative embodiment, the switching mechanism includes a set of switches for selectively connecting each of the capacitive elements to the capacitive load and a switch control mechanism for selectively activating the switches.

## UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

PATENT NO. : 5,473,526  
DATED : Dec. 5, 1995  
INVENTOR(S) : Svensson et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Insert the following:

Column 1, line 5 — This invention was made with government support under DABT-63-92-C-0052 awarded by ARPA. The government has certain rights in the invention —.

Signed and Sealed this  
Ninth Day of July, 1996

Attest:



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